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61.70.P Stacking faults, stacking fault tetrahedra, and other planar defects

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62. MECHANICAL AND ACOUSTIC PROPERTIES OF CONDENSED MATTER

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63. LATTICE DYNAMICS AND CRYSTAL STATISTICS

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64. EQUATIONS OF STATE, PHASE EQUILIBRIA, AND PHASE TRANSITIONS

64.10.+ General theory of equations of state and phase equilibria

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64.80.C Solubility, segregation, and mixing

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65. THERMAL PROPERTIES OF CONDENSED MATTER

65.40.– Heat capacities of solids

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66. TRANSPORT PROPERTIES OF CONDENSED MATTER (NONELECTRONIC)

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66.30.F Self-diffusion in metals, semimetals, and alloys

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68. SURFACES AND INTERFACES; THIN FILMS AND WHISKERS

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71. ELECTRON STATES

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71.20.+ Electronic density of states determinations (including energy states of liquid semiconductors)

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71.30.– Nonlocalized single-particle electronic states

71.30.D Electron energy states in liquid metals

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71.30.K Band structure of crystalline metals

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71.55.D Metals, semimetals, and alloys

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71.70.– Level splitting and interactions

71.70.C Crystal and ligand fields

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71.70.E Spin-orbit coupling, Zeeman, Stark, and strain splitting

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71.85.F Exchange, correlation, dielectric response, and plasmons

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71.90.+ Other topics in electron states

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72. ELECTRONIC TRANSPORT IN CONDENSED MATTER

72.10.– Electronic conduction in metals and alloys

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72.10.C Electrical and thermal conduction in amorphous and liquid metals and alloys

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72.10.E Electrical and thermal conduction in crystalline metals and alloys

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72.10.G Galvanomagnetic and other magnetotransport effects

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72.10.J Thermoelectric effects

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72.10.Q Scattering mechanisms and Kondo effect

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72.20.– Conductivity phenomena in semiconductors and insulators

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72.20.D General theory, scattering mechanisms

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73. ELECTRONIC STRUCTURE AND ELECTRICAL PROPERTIES OF SURFACES, INTERFACES, AND THIN FILMS

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73.60.– Electronic properties of thin films

73.60.D Metallic thin films

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73.90.+ Other topics in electrical properties of surfaces, interfaces, and thin films

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74. SUPERCONDUCTIVITY

74.20.– General properties

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74.20.C Magnetization curves, Meissner effect, penetration depth

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74.20.E Thermodynamic properties; thermal conductivity

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74.20.G Response to electromagnetic fields, NMR, ultrasonic attenuation

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74.30.D Phenomenological and two-fluid theories

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74.30.F BCS theory; applications

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74.30.H Fluctuations and critical effects

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74.50.– Superconducting materials and devices

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75. MAGNETIC PROPERTIES AND MATERIALS

75.10.– General theory and models of magnetic ordering

75.10.D Crystal-field theory and spin Hamiltonians

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75.10.G Heisenberg and Ising models

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75.10.L Band and itinerant models

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75.20.– Diamagnetism and paramagnetism

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75.30.– Magnetically ordered materials, other intrinsic properties

75.30.C Saturation moments and magnetic susceptibility

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75.30.F Spin waves

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76. MAGNETIC RESONANCES AND RELAXATION IN CONDENSED MATTER; MÖSSBAUER EFFECT

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77. DIELECTRIC PROPERTIES AND MATERIALS

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78. OPTICAL PROPERTIES AND CONDENSED-MATTER SPECTROSCOPY AND OTHER INTERACTIONS OF MATTER WITH PARTICLES AND RADIATION

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78.45.+ Stimulated emission

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